

Technical Data Sheet

33.06.308E – 07/06

® KERAPOX EP 210

Scratch and cavity fill- coat to mend imperfections in concrete substrates

Description

KERAPOX EP 210 is a smooth applicable solvent free, nonylphenol- and silicone-free epoxy resin based coat with mineral fillers. The layer thickness ranges between 1 and 2 mm for two-dimensional application.

Solvent free in acc. with **ibh** – recommendation

Typical uses

KERAPOX EP 210 is applied on concrete and screed substrates to fill cavities, holes, gravel pockets and other imperfections and to create a smooth surface free from pores.

KERAPOX EP 210 is used as a base coating for a multitude of corrosion protection systems.

Properties

KERAPOX EP 210 adheres excellently to the substrate and one avails of its good isolating properties. The smoothing coat hardens with almost no shrinking and is available in natural colour.

Chemical resistance

Information on the chemical resistance properties will be provided on request.

Substrate

Concrete structures shall meet the requirements of DIN EN 14879-1.

Surface pretreatment

If required, the concrete surface must be treated by means of blasting in such a manner that it is free of cement slurries, cement skin, loose or brittle particles, defects and separating substances. The residual moisture of the concrete surface must be < 4%.

Application

KERAPOX EP 210 consists of a three-component layer.

Mixing ratios	Parts by weight (kg)	Parts by volume (l)
KCH EP solution 2	100	2.00
KCH EP hardener 6	60	1.30
KCH powder 17	260	6.50

Spread the compound onto the substrate using a smoothing tool.

Pot life

Temperature	KERAPOX EP 210
15°C	~ 60 min.
20°C	~ 45 min.
30°C	~ 20 min.

Coverage

approx. 1.7 kg/m² per mm thickness

Packing

The following standard quantities are available:

KCH EP solution 2	5, 20 kg
KCH EP hardener 6	5, 20 kg
KCH powder 17	25 kg

Storage

The products shall be stored in a cool and dry place. With a storage temperature of 23°C the minimum shelf life is as follows:

KCH EP solution 2	12 months
KCH EP hardener 6	12 months
KCH powder 17	24 months

Higher temperatures will shorten the shelf life of this products. The packaging drums are to be kept tightly shut and are to be resealed each time material has been removed. All liquid products must be stored frost-free.

Safety

Adequate ventilation is to be provided while work is in progress. Ventilation is compulsory for all work carried out in pits and closed rooms. All vapours that are produced while work is in progress must be continuously suctioned off at floor or bottom level.

Only the amount of material effectively required to continue work is to be stored at the working place. The instructions for the prevention of fire and explosion are to be observed if required.

Please note and ensure that even the smallest quantities of the individual components and/or prepared mixtures are not allowed to reach the sewerage.

All regulations for the prevention of accidents stipulated by the employer's liability assurance association, the regulations for the prevention of accidents prescribed at the site of application and the TRGS 507 „Surface treatment in rooms and tanks“, as well as the safety precautions listed on the packing (label) required by the provisions of the Hazardous Materials Ordinance shall be adhered to. The operating instructions pursuant to § 14 GefStoffV as well as the EC safety data sheets are to be complied with.

Technical data	Test specification	Unit	Parameter
Density	DIN EN ISO 1183-1	g/cm ³	1.7
Compressive strength	DIN EN ISO 604	MPa	80
Tensile strength	DIN EN ISO 527	MPa	16
Elongation at tear	DIN EN ISO 527	%	1.0
Flexural strength	DIN EN ISO 178	MPa	35
Modulus of elasticity (bending)	DIN EN ISO 178	MPa	3,500
Adhesive strength to concrete/screed*)	DIN EN 24624	MPa	> inherent strength of substrate
Hardness	DIN 53505	Shore D	80
Dissipation Resistivity (to earth)	DIN EN ISO 1081	Ω	> 10 ⁹
Coefficient of linear thermal expansion	DIN 53752	K ⁻¹	70 · 10 ⁻⁶
Maximum operating temperature		°C	80

*) compressive strength 25 MPa

The technical data contained herein represents the current state of our product knowledge and is intended to furnish general information regarding our products and their application spectrum. In view of the diversity and multitude of application possibilities, this data should be regarded solely as general information, which does not guarantee any specific properties and/or suitability of these products for each concrete case of application. Consequently, when ordering a product, please contact us for detailed information relative to the properties required for a specific application. Our technical service will, upon request, furnish a profile of characteristics for the concrete application without delay.

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تلفن: ۰۴-۲۲۶۴۶۷۸۳ و ۰۱-۲۲۶۳۰۶۰۸

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